

Application No. 10/568,784
Amendment dated June 5, 2007
Reply to Office Action of January 5, 2007

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Amendments to the Drawings

The attached sheets of drawings include changes to Figures 1, 2 and 3. These sheets of drawings replace the previously submitted sheets containing each of these Figures. Element 12 in Figure 1 has been replaced with element 21. Elements 24, 47, 49 and 51 have been added in Figure 2. Element 3 in Figure 3 has been replaced with element 31.

Attachment: Replacement Sheets
Annotated Sheets Showing Changes

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REMARKS/ARGUMENTS

The drawings and description have been amended to overcome the specific objections raised by the Examiner. The disclosure has been amended in paragraph 19 to include the subject matter of claims 9 and 10. These claims as originally filed provide proper support for amendment to the disclosure.

Claim 1 in the application has been amended to clarify that the moving mold includes opposed mold blocks which meet in a closed mold block configuration to define the moving mold in a forward run of the mold block with the mold blocks separating to an open configuration in a return run of the mold blocks. The claim has further been clarified that the moving mold is surrounded by an air block housing in the forward run and the return run to define a cooling chamber exteriorly around the moving mold. Furthermore, the claim has been amended in the last line clarifying that the cooling chamber maintains a trapped cooled air environment about the moving mold.

The moving mold according to the specification and as now claimed, is positioned within the air block housing and defines a cooling chamber exteriorly around the moving mold. The trapped air environment about the moving mold is cooled to remove heat from the moving mold. This arrangement of providing a controlled cooled air environment about the moving mold is in direct contradiction to each of the primary references cited in the Action.

Claims 1, 12, 14, 16 and 17 were rejected as being anticipated by Dickhut et al. United States Patent 4,439,130.

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According to this reference, there is no air block housing that maintains a trapped cooled air environment about the moving mold. It is clear according to this reference that air is forced over the moving mold in both the open and closed configuration, however, air is effectively discharged to the environment after passing over the mold blocks. As clearly shown in Figures 3 and 4, the shields 172 spaced adjacent the molded assemblies include an exhaust 174 for the cooling air. The specification states that the cooling air leaving the exhaust 174 is preferably collected by an air exhaust hood and disposed above the corrugator. This particular practice is in contradiction to the structure as claimed where the air block housing provides a closed cooled air environment about the moving mold. Cooling is provided in this closed environment to efficiently remove heat from the moving mold. Applicant has found that it is not desirable to merely cool air and pass it over the mold blocks once as taught in the reference. Maintaining a cooled trapped air environment about the moving mold is more effective.

In contradiction to the cited U.S. Patent 4,439,130, Applicant effectively provides a regulated cooled atmosphere about the entirety of the moving mold of the molding apparatus.

In light of the above, reconsideration of claims 1, 12, 14, 16 and 17 is requested.

Claims 1, 2, 8 and 14 were rejected as being anticipated by Schriner United States Patent 3,066,351. The Schriner reference includes an open ended housing 33 about the moving mold in the closed configuration, however, it is clear from Figure 1 that this housing 33 does not enclose the moving mold when the mold blocks are in the open configuration, and furthermore, the reference does not teach a cooling chamber maintaining a trapped air environment about the moving mold. The Schriner structure

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teaches away from the molding apparatus as claimed in the present application.

Claims 3 through 7, and 11, were rejected as being obvious over Schriner United States Patent 3,066,351 in view of Lupke et al. United States Patent 5,525,289. Reconsideration of these claims is required. None of the references teach or even suggest maintaining a trapped air environment about the moving mold. Furthermore, as previously argued, the Schriner reference does not teach a moving mold that is surrounded by the air block housing in both the forward run and the return run of the mold blocks.

The secondary reference does not overcome the deficiencies with respect to the primary reference, and in particular, a person skilled in this art would continue to follow the teaching of the primary reference and use a non trapped air environment passed over the moving mold once when the moving mold is in the closed configuration and discharged. There is no teaching or suggestions of the benefits of enclosing the moving mold in both the forward run and the return run of the mold blocks as required in the amended claims.

Claims 2 through 7, and 11, were rejected over the Dickhut et al. reference in view of Lupke et al. For the reasons, previously submitted with respect to the rejection of claim 1, as set forth with respect to the Dickhut et al reference, it is believed that claims 2 through 7, and 11, fully distinguish over this combination. This reference uses one time cooling of a portion of the mold blocks as opposed to the positioning of the moving mold in the air block housing to define a cooling chamber exteriorly around the moving mold.

Reconsideration of these claims is also requested.

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For the reasons submitted with respect to claim 1, and the manner in which is distinguishes over Dickhut et al United States Patent 4,439,130, reconsideration of claims 13 and 15 is also requested.

Each of the primary references cited in the Action effectively teach away from the trapped cooled air environment of the cooling chamber and the location of the moving mold within this cooling chamber.

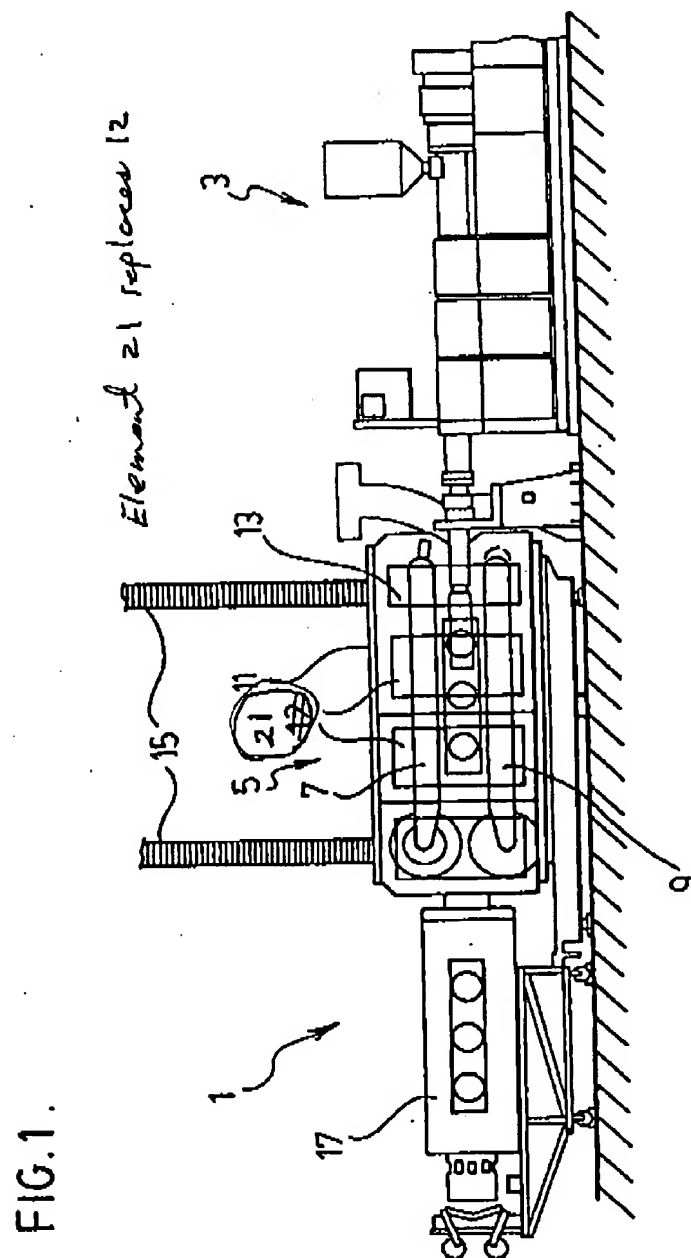
Reconsideration and allowance of the application is requested.

Respectfully submitted,


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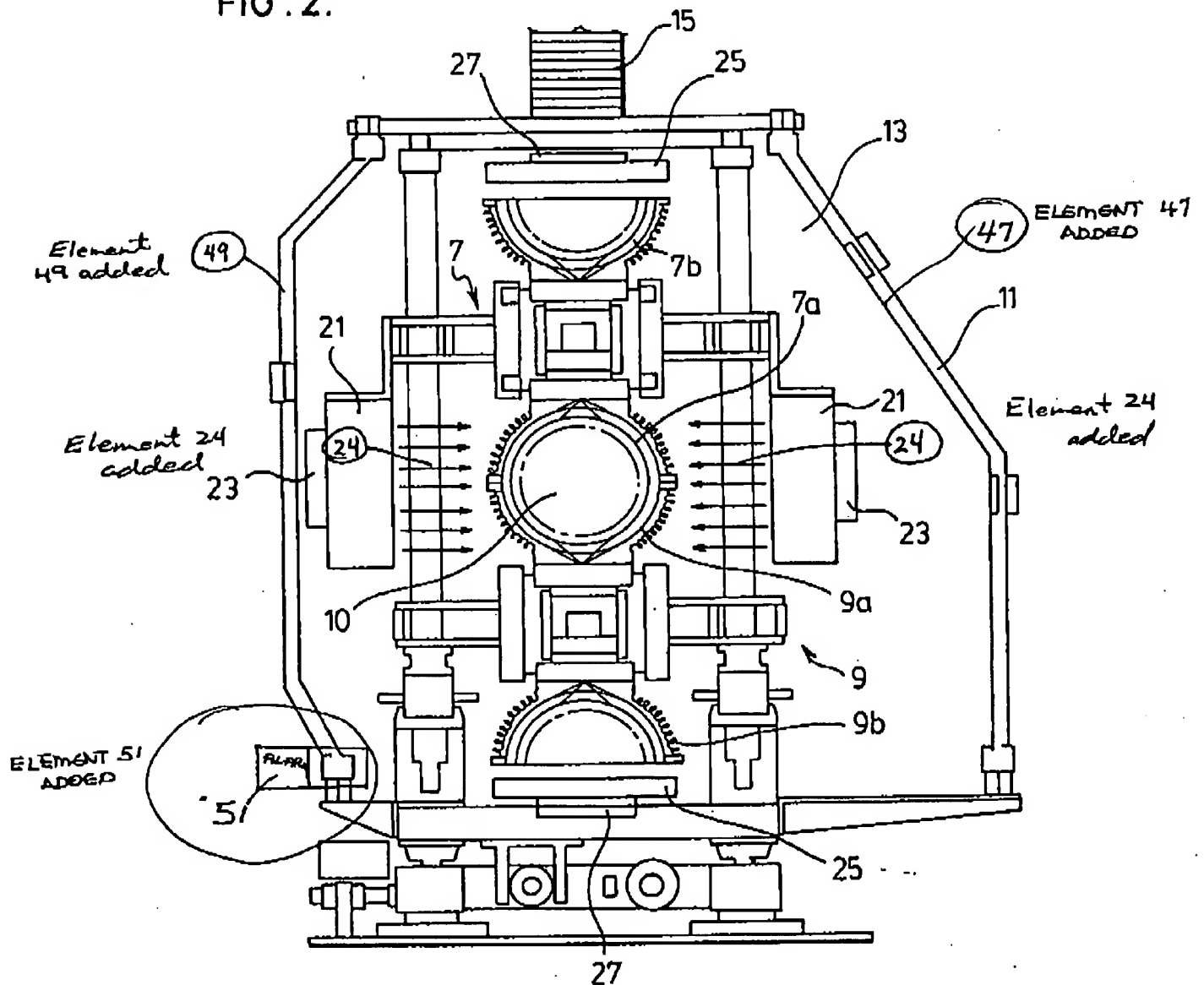
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FIG. 2.



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